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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,175	10/22/2003	Nitzan Peleg	200308559-1	6513
22879 7590 10/07/2008 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400				
EXAMINER				
BLACK, LINH				
ART UNIT		PAPER NUMBER		
2169				
NOTIFICATION DATE		DELIVERY MODE		
10/07/2008		ELECTRONIC		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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**Office Action Summary****Application No.**

10/691,175

**Applicant(s)**

PELEG ET AL.

**Examiner**

LINH BLACK

**Art Unit**

2169

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 July 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/ICE)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_
- Paper No(s)/Mail Date \_\_\_\_\_

### **DETAILED ACTION**

This communication is responsive to the Applicant's documents dated 7/9/08. Claims 1-21 are pending in the application. Claims 1, 5, 10, 14, and 19 are independent claims.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-16, and 18-21 rejected under 35 U.S.C. 102(b) as being anticipated by Downing et al. (US 6289335).

As per claims 1, 5, 10, 14, 19, Downing et al. teach  
a materialized view stored on the memory, the materialized view being derived at least  
in part from a table – col. 9, last paragraph.  
a logging mechanism stored on the memory, the logging mechanism configured to  
maintain that maintains a refresh log; the refresh log containing a first range and a  
second range that at least partially overlap, the first range and the second range each  
having a timestamp associated therewith – fig. 12, col. 8, lines 45-63. – col. 3, lines 49  
to col. 4, line 9.

wherein the timestamp associated with each of the first range and second range respectively indicates when an operation corresponding to the first range and the second range occurred to the table - col. 1, 1st par; col. 9, last par; col. 17, line 45 to col. 18, line 15.

a refresh manager stored on the memory, the refresh manager configured to resolve conflicts between the first range and the second range that at least partially overlap by selecting portions of the first range and the second range that have the more recent timestamp; and applying the selected portions of the first range and the second range to the materialized view – col. 3, line 49 to col. 4, line 9; col. 6, lines 25-36; col. 9, last par to col. 10, 1st paragraph.

As per claims 2-3, 6-7, 11-12, 15-16, 20-21, Downing et al. teach wherein the refresh log comprises a plurality of entries, each of the entries comprising an epoch identifier – figs. 5a-c, field: OID; col. 8, lines 45-64 (The refresh timestamp for a snapshot indicates the time at which the snapshot was last refreshed; TIME\$\$ field).

As per claims 4, 9, 13, 18, 20, Downing et al. teach wherein a plurality of materialized views are derived at least in part from the table – col. 9, last par.

***Allowable Subject Matter***

Claim 17 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

Applicant's arguments filed 7/9/08 have been fully considered but they are not persuasive. Regarding the Applicant's argument on page 11, 2nd paragraph that Downing fails to disclose timestamps associated with ranges...Examiner finds the limitation range is broad. Examiner interprets the refresh range is the refresh period in which the prior art discloses this feature at col. 1, 1st paragraph; col. 9, last paragraph. Regarding that the prior art fails to disclose anything related to performing conflict resolution..., Examiner disagrees. The prior art disclose the wrap up process to purge entries the master logs that are no longer needed...periodically pruned..., resolving conflicts - col. 17, line 45 to col. 18, line 15.

Regarding the Applicants' argument that the applied reference clearly is not refreshing the materialized view based on a comparison of the timestamps...Examiner disagrees. The prior art disclose the refresh operation of materialized views may be periodically generated ...after a prescribed amount of time - col. 9, last paragraph. Thus, at least a time stamp is checked or/and compare for the refreshing operations.

Regarding the Applicant's argument of the limitation epoch number, the specification, paragraph 32 discloses that "the epoch number may be used to identify a group of rows or records that have been added to the IUD log since a refresh operation was performed..." Figs. 13a-c depict a series of states of a fast refreshed snapshot.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINH BLACK whose telephone number is 571-272-4106. The examiner can normally be reached on Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trujillo can be reached on 571-272-3677. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James K. Trujillo/  
Supervisory Patent Examiner, Art Unit 2169

LINH BLACK  
Examiner  
Art Unit 2169

September 29, 2008.